ME12002

Compact Excavator

OPERATOR'S MANUAL

PART #909730

Revision B - 04/07

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Mustang Manufacturing Company, Inc.

Mustang ME12002 Compact Excavator Operator Manual

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Brand: Mustang

Models: ME12002

Machine: Compact Excavator

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Main contents

- Machine Orientation
- Excavator Components
- Machine Operation
- Maintenance
- General Information
- Maintenance Schedule
- Engine
- Fuel System
- Filling the Fuel Tank: (SN AB03158 and before)
- Coolant System
- Electrical System
- Hydraulic System
- Track System
- Troubleshooting

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Sample pages follow. Full manual: machinecatalogic.com

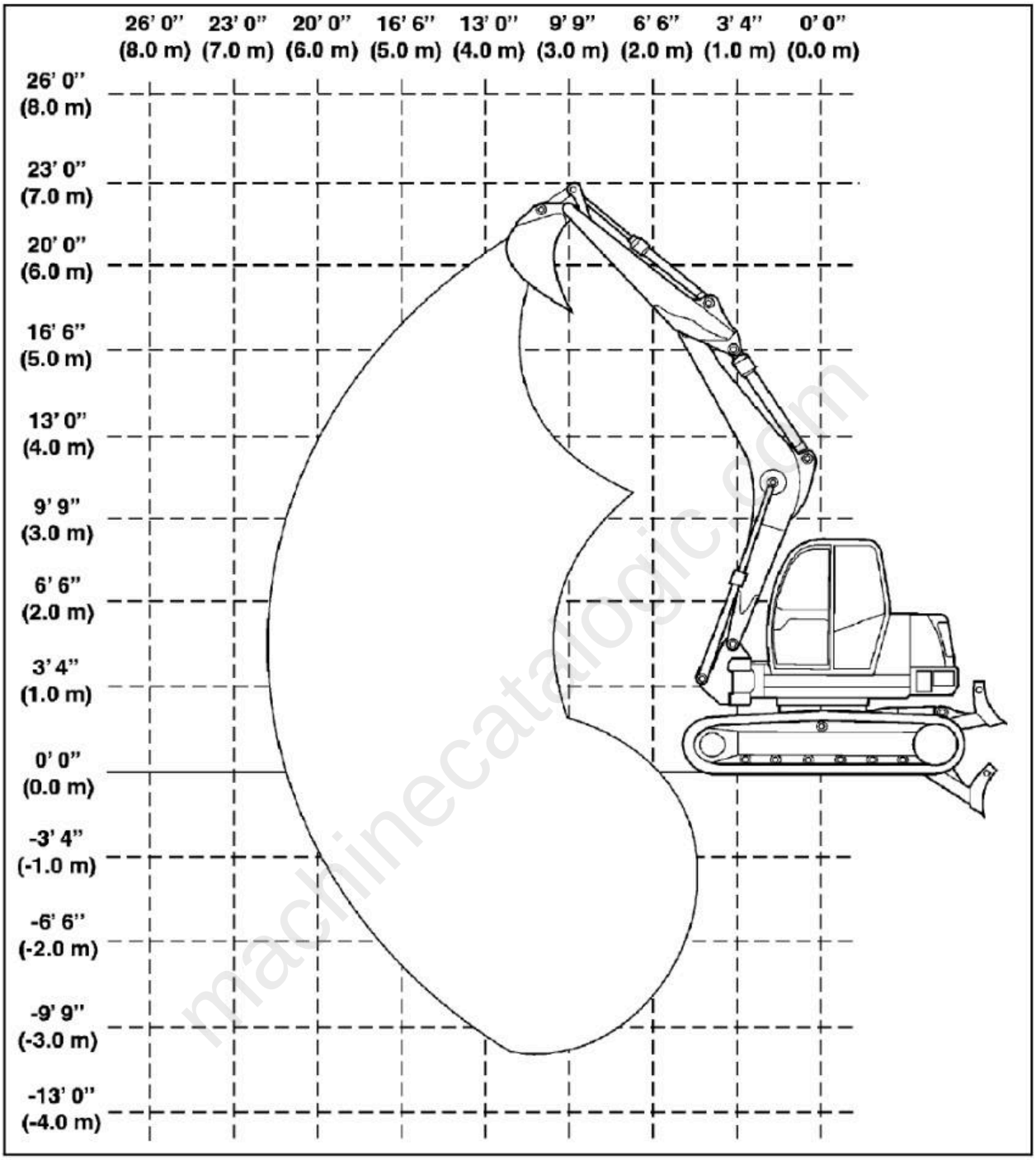
Fluid Capacities/Lubricants: Yanmar 4TNE106T-NS (SN AB00473-AB03158)

Lubrication Point	Lubricant
Motor Oil	Fina Kappa 10 W 40 CF-4/SG
Hydraulic Oil	BP Energol SHF 46 Fina Hydran TSX 46
Live Ring Gearing Ball Bearing	BP Energrease MP-MG2 BP Energrease L 21 M
Travelling Gear Unit	Fina Potonic GLS SAE 85 W 90
Excavator Arm	BP Energrease L 21 M Gleitmo 800 (for initial lubrication of bolts, slewing bracket and clamping sleeves)
All Lubrication Points	BP Energrease L 21 M

Range of Application of Motor Oil:
from -13° F to 104° F (-25° C to 40° C).

NOTE: *All specified greases are suitable from -13° F to 104° F (-25° C to 40° C).*

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Figure 1-4 Working Range Diagram

SAFETY

(Continued)





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SAE Operating Controls

SAE boom and bucket functions are controlled by the right and left joystick control levers located on the seat consoles.

SAE Left Joystick – See Figure 4-10.

1 – Arm extend
2 – Arm retract
3 – Swing left
4 – Swing right

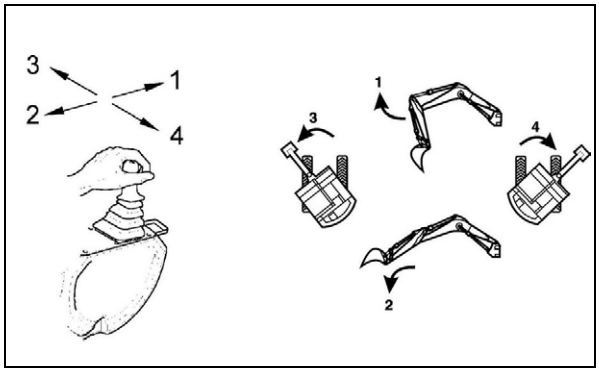


Figure 4-10 SAE Left Joystick

SAE Right Joystick – See Figure 4-11.

5 – Boom lower
6 – Boom raise
7 – Curl bucket in
8 – Curl bucket out

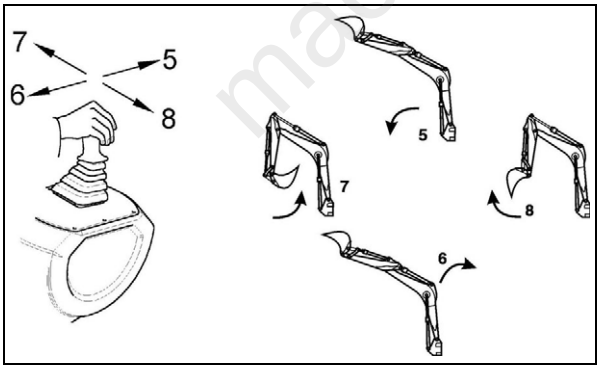


Figure 4-11 SAE Right Joystick

NOTE: *The farther the controls are moved from center, the faster the machine will function.*

ISO Operating Controls

ISO boom and bucket functions are controlled by the right and left joystick control levers located on the seat consoles.

ISO Left Joystick – See Figure 4-12.

1 – Boom lower
2 – Boom raise
3 – Swing left
4 – Swing right

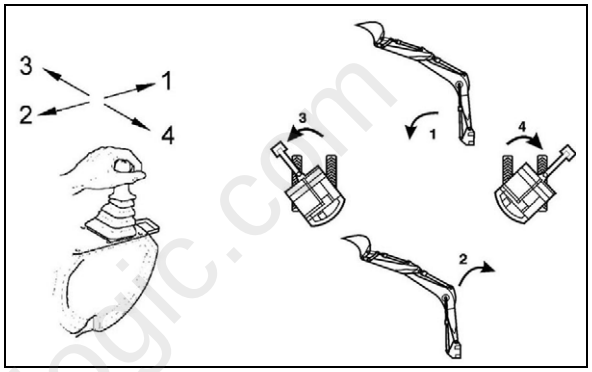


Figure 4-12 ISO Left Joystick

ISO Right Joystick – See Figure 4-13.

5 – Arm extend
6 – Arm retract
7 – Curl bucket in
8 – Curl bucket out

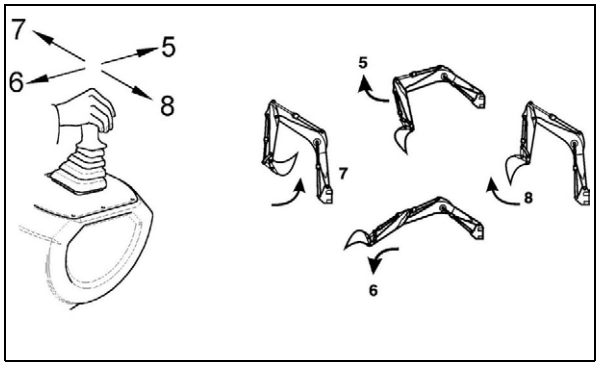


Figure 4-13 ISO Right Joystick

NOTE: *The farther the controls are moved from center, the faster the machine will function.*

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Transporting

Towing

The excavator can be towed by using the towing bracket (1). Secure a towing shackle, shackle pin and lock (2) of adequate size to the towing bracket (1) as shown. See Figure 4-31. Tow the machine slowly.

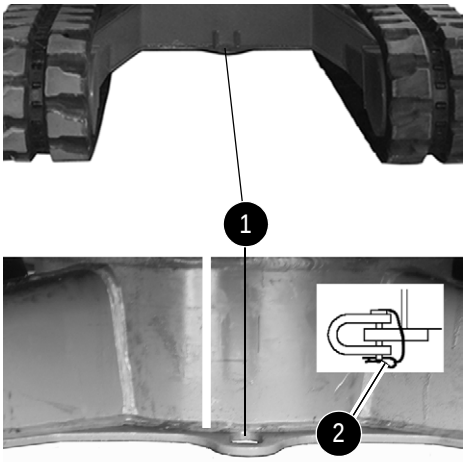


Figure 4-31 Towing

Lifting the Machine

⚠ WARNING

- **Use a lifting device with sufficient capacity for the weight of the machine plus any attachments.**
- **Maintain center-of-gravity and balance points on the machine. See Figure 4-32.**
- **Do not swing the boom.**
- **Never lift the machine with the operator aboard.**

Secure the lifting fixture sling to the lifting points (1) on the machine as follows. See Figure 4-32.

- Length L1 on the lifting sling for the boom must be 11’5” (3.5 m) long.
- Length L2 (two locations) on the lifting sling must be 13’1” (4.0 m) long.

See Figure 4-32. Do not exceed the rated load capacity of the lift. See “General Specifications” on page 4 for excavator weight.

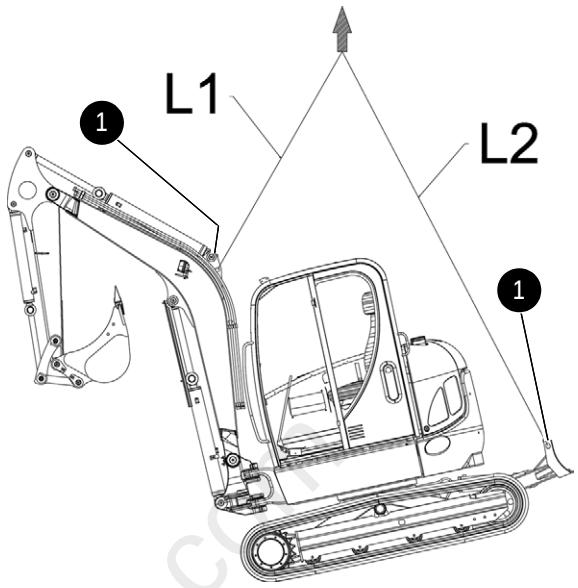


Figure 4-32 Machine Lifting Points

Loading and Transporting

Refer to Figure 4-33.

Use only transporters that are in proper working order and are approved for use on public roads.

When using ramps:

- Do not exceed an incline of 17° (30%).
- Clean dirt, mud, ice and snow from the ramps and tracks.
- Use metal loading ramps with a slip-resistant surface, and with beveled ends to prevent damage to rubber tracks.

Loading Procedure:

1. Attach ramps securely to the transporter to prevent them from slipping off during loading.
2. Load the transporter on solid, even ground.
3. Engage the transporter parking brake and chock the wheels.
4. Determine the direction of the track movement (blade facing forward) before moving the excavator onto the ramps.
5. After the excavator is on the transporter, lower the dozer blade onto the loading surface.
6. Rotate the cab 180° so that the excavator is facing rearward. See Figure 4-33.
7. Lower the bucket onto the loading surface and turn off the excavator engine.

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CHAPTER 5
MAINTENANCE

GENERAL INFORMATION

⚠ WARNING

Instructions are necessary before operating or servicing the machine. Read and understand this entire manual. Follow warnings and instructions for operation and maintenance. Check for correct function after adjustments or maintenance. Failure to follow instructions can result in injury or death.

⚠ WARNING

Be sure you are familiar with all safety devices and controls before operating or servicing the machine. Know how to stop before starting. The machine is designed for use only with approved accessories or referral attachments. The MUSTANG Company cannot be responsible for safety if the machine is used with non-approved modifications or attachments.

⚠ WARNING

The hydraulic reservoir is under pressure. Avoid contact with leaking hydraulic fluid or diesel fuel under pressure. It can penetrate the skin and eyes.

Care and Servicing

The care and servicing of the machine has a significant influence on its operational readiness and service life.

Use of lubricants not corresponding to the manufacturer's recommendations may invalidate warranty claims.

More frequent servicing, other than the recommended intervals, may be required under extreme conditions (extremely dusty or hot conditions).

Always dispose of waste lubrication oils and hydraulic fluids according to environmental laws or take to a recycling center for proper disposal. **DO NOT** pour fluids onto the ground or down a drain.

DO NOT power-wash the main hydraulic pumps and controls, throttle solenoids and sealed bearings. High pressure water can be forced through seals and trapped within these components, causing premature failure.

The operating pressure settings of the hydraulic system should only be adjusted by trained, qualified personnel. If malfunctions are caused by unauthorized alteration of operating pressure settings, all warranty responsibilities of the manufacturer are invalidated.

Maintenance Safety

- Never service the machine without reading the applicable instructions.
- Always lower bucket and dozer blade to the ground before performing any maintenance.
- Use correct procedures to lift and support the machine. Always lift the dozer blade fully before installing jackstands.
- Keep the engine cover and hydraulic valve covers closed except for service. Close and latch covers before operating the machine.
- Be sure to have the work area properly ventilated when grinding or welding parts. Wear a dust mask.
- Exhaust fumes can kill. The exhaust system must be tightly sealed. If working in an enclosed area, vent exhaust to outside if the engine must be run for service.
- Never modify equipment or add attachments not approved by the Mustang Company.
- Stop the engine and let it cool, then clean any flammable materials from the engine before checking fluid levels.

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Fuel Filter/Water Separator: Tier 2 Engine John Deere 4045TF270 (SN AC02633 and up)

The fuel filter/water separator is located at the rear of the engine as shown (1). See Figure 5-13.

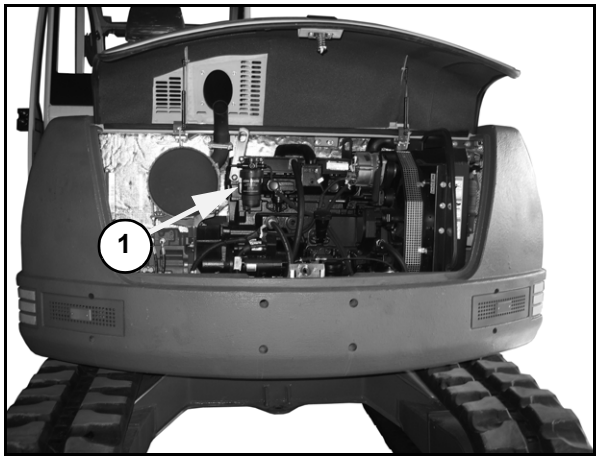


Figure 5-13 Fuel Filter/Water Separator Location

1. Unscrew the plastic ring (2) to change the fuel filter and clean dirt from the housing. See Figure 5-14.
2. Clean around the filter housing. Put fuel on the seal of the new fuel filter.
3. Install the new fuel filter and hand tighten.
4. Remove the plastic bowl (3). See Figure 5-14.

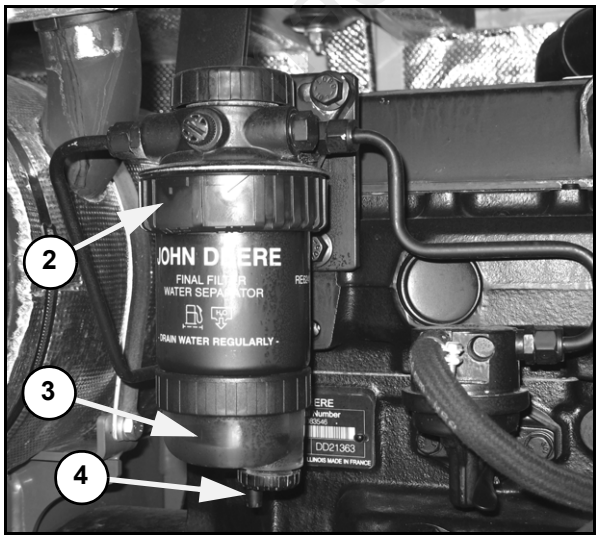


Figure 5-14 Fuel Filter/Water Separator

5. The fuel system must be purged of air after changing the fuel filter, or if the fuel tank has been run dry.
6. If water is seen in the plastic bowl, the bowl will need to be drained. If necessary, open the valve (4) to drain the plastic bowl. See Figure 5-14.
7. Clean the new fuel filter element bottom.
8. Put oil on the base of the plastic bowl.
9. Install the plastic bowl.
10. Discard fuel/water according to local regulations. **DO NOT** pour fluids onto the ground or down a drain.
11. Close the valve opened in step 6.

Fuel Filter/Water Separator: Tier 1 Engine Yanmar 4TNE106T-NS (SN AB00473-AB03158)

Fuel Filter

Unscrew the clear plastic housing (Figure 5-15) to change the filter element and clean dirt from the housing. Clean around the filter housing. Put oil on the seal of the new filter element. Install the fuel filter and hand tighten.

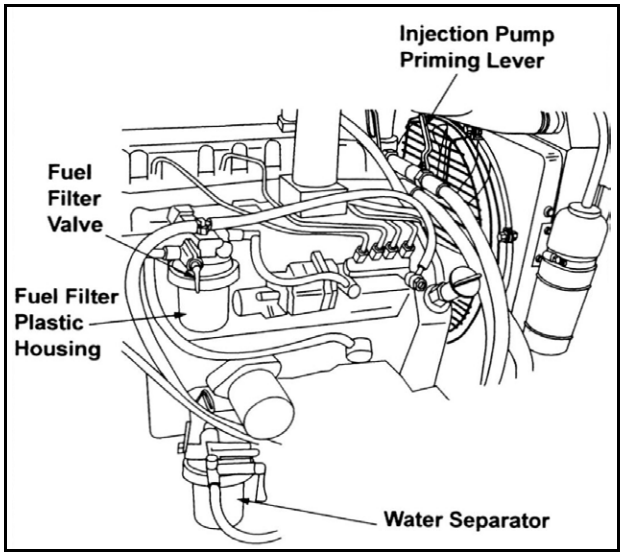


Figure 5-15 Fuel Filter

The fuel system must be purged of air after changing the fuel filter, or if the fuel tank has been run dry.

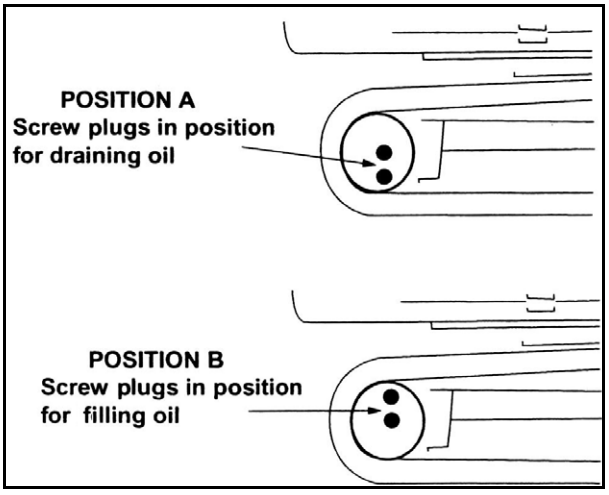


Figure 5-42 Track Final Drive Oil Change

Checking and Adjusting Track Tension: New Style

1. Position the machine on a level surface.
2. Use the bucket and dozer blade to lift the machine up until a track is just clear of the ground. See Figure 5-43.
3. Engage the parking brake. Shut off the engine. Remove the ignition key and take it with you.
4. Remove the side plate from the left track to expose the adjustment fitting. See Figure 5-44.
5. Using a grease gun, pump grease into the fitting until the idler wheel is centered as shown in Figure 5-44.

NOTE: *A grease gun is supplied with machine tool kit.*

IMPORTANT: *Do not over-tension the track. If the track is too tight, loosen the grease fitting to relieve the pressure.*

⚠ WARNING

Do not loosen the grease fitting more than two turns, or the fitting could be ejected under pressure and cause injury.

6. Reinstall the side plate.
7. Start the engine. Lower the machine to the ground.
8. Repeat this procedure for the other track.

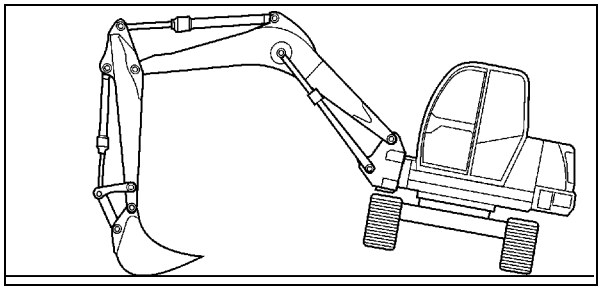


Figure 5-43 Machine Position for Track Adjustment

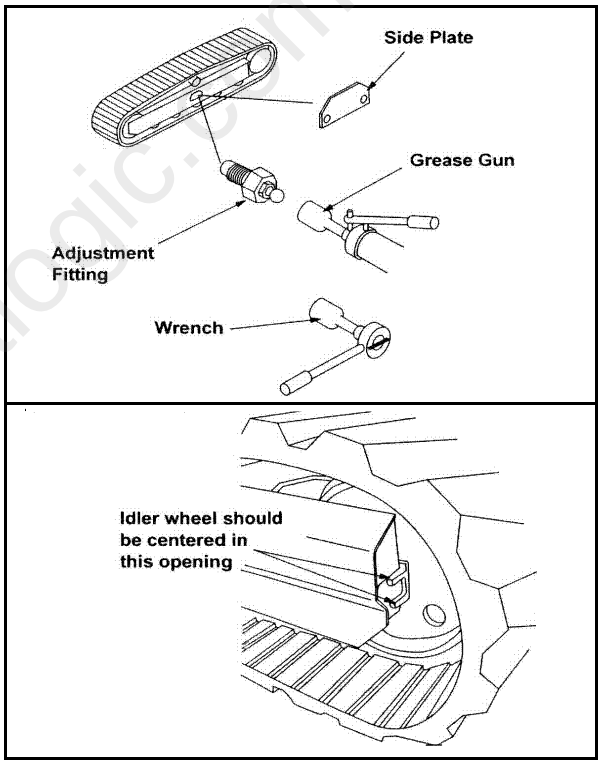


Figure 5-44 Track Adjustment

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Mustang ME12002 compact excavator operator manual, 909730 Rev. B: maintenance schedule, track tension, fluids, troubleshooting. Instant PDF download.

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